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TRANSMITTAL			Filing Date		29 Nov 04	
FORM			First Named Inve	ntor	H.L. HANCKE	
(to be used for all correspondence after initial filing)		Group Art Unit		1625		
•		Examiner Name		N.RAHMANI		
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT						
Firm Mark Pohl, Esq., USPTO Reg. No. 35,325						
or Individual name		armaceutical Patent Attorneys, LLC Madison Avenue, 4th floor, Morristown NI 07960-7397 USA				
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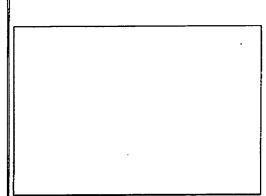
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In The United States Patent Office

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Serial No.: 10/516,500

Filing Date: 29 November 2004

Group Art: 1625

Examiner:

Niloofar RAHMANI, Esq.

RULE 132 DECLARATION

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I am an inventor of record of the captioned application. I present this Declaration pursuant to The Code of Federal Regulations, Title 37, Rule 132. I hereby Declare as follows:

- 1. I have read the Examiner's 1 August 2006 Office Action and the references cited therein. I respectfully disagree with certain of the factual allegations made by the Examiner because the art of record contradicts the Examiner.
- 2. The Examiner alleges, "Andrographis paniculata grown just anywhere everywhere on this planet may or my [sic] not have the compounds necessary to treat Syndrome X." I respectfully disagree, for several reasons.

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- 3. First, Andrographis paniculata cannot, to my knowledge, grown "anywhere everywhere on this planet." To the contrary, like any other plant, it has specific environmental conditions for growth; these conditions are well known in the art, and well known to any botanist familiar with the plant.
- 4. Second, I have no reason to believe that "Andrographis paniculata ... may or my [sic] not have the compounds necessary to treat Syndrome X." To the contrary, every specimen of Andrographis paniculata which I have evaluated, from whatever source or ecosystem, has in fact contained "the compounds necessary to treat Syndrome X." I therefore know of no factual evidence to support the thesis that Andrographis paniculata from a certain specific ecosystem "may or my [sic] not have the compounds necessary to treat Syndrome X."
- 5. Our application claim number 53 reads as follows:
 - 53. A method comprising:
 - i. diagnosing in a patient a disease selected from the group consisting of: Alzheimer's Disease; Acquired Immune Deficiency Syndrome; and autoimmune disease, and
 - ii. administering to said patent 3-[2-[decahydro-6-hydroxy-5-(hydroxymethyl)-5,8a-dimethyl-2-methylene-1maphthalenyl]ethylidene]-dihydro-4-hydroxy-2(3h)-furanone in an amount effective to combat said disease.

I understand that "It is the examiner's position that the claims are drawn to 'a method of diagnosing in a patient a disease." I respectfully disagree because the

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Examiner's position ignores the entire second half of our claim. Contrary to the Examiner's position, one of skill in the art would read this two-step claim to be drawn not to a one-step method (diagnosing), but to a two-step method requiring both i) diagnosing and ii) administering.

- 6. I understand the Examiner to allege that the meaning of the term "Andrographolide" is well-known in the art and denotes one specific
- compound. I respectfully disagree. The Examiner's own references show that this term is used by different scientists to denote different compounds. For
 - example, the Examiner notes that U.S. Patent No. 5,883,074 uses the term to denote one compound, while US Patent Application 2002/0077350 and US
 - 2002/0068098) use the same term to denote a different compound.
- 7. I understand the Examiner to allege that the compound allegedly known as "andrographolide" is the same as the claimed compound. As support, the Examiner at page 3 of her Office Action illustrates the compound which she

understands to be the same as the claimed compound. I respectfully disagree

that the Examiner's compound is the same as - nor even similar to - the

claimed compound. Rather, the structural differences between the Examiner's

compound and the claimed compound are readily apparent when one

compares the two chemical structures. I illustrate the differences here,

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showing the structure of the claimed compound on the top, and the structure of

the Examiner's compound on the bottom. One of skill in the art would, different on seeing these structures, immediately apprehend that the compounds are not the same, and may indeed possess widely different pharmaceutical toxicology and profiles.

8. As a related matter, the Examiner at provides the incorrect pages 3-4 IUPAC nomenclature designation for her compound. While a precise IUPAC designation is not possible (the Examiner's compound bears a number substituted R moieties), the

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The Examiner's compound

Examiner's compound includes three sulfur atoms. The IUPAC name she provides, however, makes no mention of any of these.

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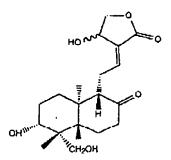
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I further note that the art of record fails to teach the claimed compound. The prior art teaches "andrographolide." See e.g., BABISH et al., U.S. '098. Our claims, however, do not require "andrographolide"; rather, our claims require 3-[2-[decahydro-6-hydroxy-5-(hydroxymethyl)-5,8a-dimethyl-2-methylene-1naphthalenyl]ethylidene]-dihydro-4-hydroxy-2(3h)-fiiranone. This compound is not taught by the art of record. This is illustrated in the accompanying comparison of the claimed compound and the five compounds taught by the art of record.

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John G. BABISH et al., WO '603

The claimed compound



John G. HABISH et al., U.S. TOS G.D. WHEELOCK of al., U.S. W4, U.S. '063 and WO '213

NANDURI et al., U.S. 324

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NANDURI et al., U.S. 196

NANDURI et al., U.S. '590

For example, BABISH et al., WO '605 and NANDURI et al., U.S. '324, U.S. '590, and U.S. '196 (2002) fail to teach methylation at C4. Similarly, BABISH et al. U.S. '098, and WHEELOCK et al., U.S. '994, U.S. '063 and WO '213 fail to teach oxidation at C9. One of skill in the art would not read any of the references of record to teach nor fairly suggest the claimed compound.

10. Similarly, our claims are drawn to methods to treat AIDS, Syndrome X, nonautoimmune Alzheimer's Disease, and autoimmune disease. One of skill in the art would not read the art of record to teach these uses. For example, one

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of skill in the art would read BABISH et al., U.S. '098 and U.S. '350, to teach the use of "andrographolide" as a diterpene triepoxide lactone or triptolide adjunct. Similarly, one of skill in the art would read BOGGS et al., U.S. '269 to teach the use of "andrographolide" as an antibiotic adjunct.

11.1 respectfully disagree with the Examiner's factual assertion that "bacterial

infection is broadly encompassed by AIDS" because AIDS does not

encompass bacterial infection. AIDS is caused by an infection by a <u>retrovirus</u>.

not a bacterium. The two different classes of infection require two completely

different therapies. For example, AIDS is treated by anti-retroviral drugs,

while bacterial infection is treated by antibiotics. Further, anti-retroviral drugs

are structurally dissimilar from antibiotics. Further, no anti-viral drug has been

shown effective against bacterial infection, and no antibiotic has been shown

effective against AIDS.

12. One of skill in the art would read NANDURI et al., U.S. '196, to teach that

"andrographolide"-containing preparations "have been assayed for the ability

to decrease the expression and phosphorylation of p34odc2 kinase, cyclin B and

c-Moss for treating or preventing pathogenicity." One of skill in the art would

read NANDURI '196, however, to fail to teach the results of those assays (that

is, he fails to say whether or not the assays show any effect). One of skill in

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the art would read NANDURI '196 to therefore provide a mere "invitation to experiment," not an enabling prior art disclosure of the claimed uses.

- 13. One of skill in the art would read PANOSSIAN et al., to teach the use od "andrographolide" for "in vitro effect on the activation and proliferation of immunocompetent cells." In contrast, autoimmune disease is thought to be caused by an overly-active immune system. Therefore, by teaching that andrographolide activates the immune system, one of skill in the art would read PANOSSIAN to teach away from the use of the claimed compound to treat autoimmune diseases.
- 14. One of skill in the art would read WHEELOCK et al., WO '213 to teach oncology and tumor treatment. One of skill in the art would read WHEELOCK et al., U.S. '994, to teach anal tumor treatment.
- 15. One of skill in the art would understand that predictability in the pharmaceutical art is low because minor structural differences can precipitate major changes in toxicology or clinical efficacy. This shows that it would not have been obvious to modify any of the prior art compounds to *make* the claimed compound, and that it would not have been obvious to *use* such a modified compound for the claimed uses.

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I further hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United State Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon or any patent to which this verified statement is directed.

Professor Juan Luis HANCKE OROZCO, Ph.D. Dated as of 9 September 2006

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I further hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United State Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon or any patent to which this verified statement is directed.

Professor Juan Luis HANCKE OROZCO, Ph.D.

Dated as of 9 September 2006

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